

Air Quality

DE20131067942

Comfort, Indoor Air Quality, and Energy Consumption in Low Energy Homes.
National Renewable Energy Lab., Golden, CO.
2013, 59p

Related Categories/Subcategories:

97B (Energy Use, Supply, & Demand)
97G (Policies, Regulations & Studies)
89B (Architectural Design & Environmental Engineering)
68A (Air Pollution & Control)

Keywords: Indoor air quality, Energy consumption, Climates

ADA606680

New Tools for Estimating and Managing Local/Regional Air Quality Impacts of Prescribed Burns.
California Univ., Riverside.
2013, 212p

Related categories/Subcategories:

48D (Forestry)
81A (Combustion & Ignition)
68A (Air Pollution & Control)
Keywords: Air quality, Forest fires, Burning rate

ADA607657

Technical Guide for Indoor Air Quality Surveys.
Air Force School of Aerospace Medicine,
Wright-Patterson AFB, OH. Occupational and Environmental Health Dept.
2014, 61p

Related categories/Subcategories:

89B (Architectural Design & Environmental Engineering)
68A (Air Pollution & Control)
Keywords: Air quality, Aerosols, Bacteria

DE131095437

Atmospheric Aerosol Chemistry, Climate Change, and Air Quality, An EMSL Science Theme Advisory Panel Workshop.
Pacific Northwest National Lab., Richland, WA.
2013, 37p

Related categories/Subcategories:

68A (Air Pollution & Control)
55 (Atmospheric Sciences)
Keywords: Atmospheric chemistry, Aerosols, Climate change

N140000090

Catalytic Converters Maintain Air Quality in Mines.
National Aeronautics and Space Administration, Washington, DC.
2014, 2p

Related Categories/Subcategories:

95E (Life Support Systems)
48A (Mineral Industries)
Keywords: Air quality, Catalysts, Exhaust emission



DE131095662

Optimization of Ventilation Energy Demands and Indoor Air Quality in the ZEB Alliance Homes.
Oak Ridge National Lab., TN.
2013, 55p

Related Categories/Subcategories:

97B (Energy Use, Supply, & Demand)
97J (Heating & Cooling Systems)
89B (Architectural Design & Environmental Engineering)
68A (Air Pollution & Control)
Keywords: Energy demand, Ventilation, Air quality

N140004415

Use Of The Operational Air Quality Monitor (AQM) For In-Flight Water Testing Project.
National Aeronautics and Space Administration, Houston, TX. Lyndon B. Johnson Space Center.
2014, 9p
Related Categories/Subcategories
95E (Life Support Systems)
Keywords: Air quality, Cabin atmospheres, Water quality

Newsletter

National Technical Reports Library

Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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Alexandria, VA 22312



PB2013103792

Indoor Air Quality Analysis of Commercial Reference Buildings.

National Inst. of Standards and Technology (EL), Gaithersburg, MD. Energy and Environment Div. 2013, 23p

Related Categories/Subcategories:

68A (Air Pollution & Control)

68F (Radiation Pollution & Control)

Keywords: Indoor air pollution, Buildings, Air quality

PB2013106512

Air Quality Modeling Technical Support Documents: Proposed Tier 3 Emission Standards.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

2013, 169p

Related Categories/Subcategories:

68A (Air Pollution & Control)

85H (Road Transportation)

Keywords: Air quality standards

PB2013106513

Emissions Inventory for Air Quality Modeling Technical Support Document: Proposed Tier 3 Emissions Standards.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

2013, 97p

Related Categories/Subcategories:

68A (Air Pollution & Control),

85H (Road transportation)

Keywords: Air quality standards, Emission inventories, Air pollution control

PB2013108262

Transportation Conformity Notice of Proposed Rulemaking: Conformity Amendments for the New 8-hour Ozone and PM(2.5) National Ambient Air Quality Standards.

Environmental Protection Agency, Washington, DC. Office of Air and Radiation.

2013, 3p

EPA420-F-03-037

Related Categories/Subcategories:

(Air Pollution & Control), 43F (Environment)

Keywords: Ozone, Ambient air, Quality standards, Motor vehicles.

PB2013110040

Quality Assurance Handbook for Air Pollution Measurement Systems. Volume 2: Ambient Air Quality Monitoring Program, May 2013.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

2013, 348p

Related Categories/Subcategories:

68A (Air Pollution & Control), 99F (Physical & Theoretical Chemistry), 43F (Environment), 91A (Environmental Management & Planning)

Keywords: Air pollution measurement, Chemical analysis, Quality assurance.

PB2013110047

Air Quality Modeling Technical Support Document: Proposed Tier 3 Emission Standards, March 2013.

Environmental Protection Agency, Research Triangle Park, NC. Office of Air Quality Planning and Standards.

2013, 169p

EPA/454/R-13/006

Related Categories/Subcategories:

68A (Air Pollution & Control), 85H (Road Transportation)

Keywords: Air quality standards, Emissions, Air pollution control.

PB2014101651

Air Quality 2013, Volume 2. Transportation Research Record: Journal of the Transportation Research Board, No. 2341.

Transportation Research Board, Washington, DC. 2013, 102p

Related Categories/Subcategories:

68A (Air Pollution & Control)

91A (Environmental Management & Planning)

91B (Transportation & Traffic Planning)

43G (Transportation)

43F (Environment)

85H (Road Transportation)

50C (Construction Equipment, Materials, & Supplies)

Keywords: Air quality, Air pollution monitoring, Vehicle air pollution.

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PB2013110648

NIOSH Ventilation Research Addressing Diesel Emissions and Other Air Quality Issues in Nonmetal Mines.

National Inst. for Occupational Safety and Health, Pittsburgh, PA.

2013, 7p

Related Categories/Subcategories:

48A (Mineral Industries)

68A (Air Pollution & Control)

81J (Reciprocation & Rotating Combustion Engines)

97K (Fuels)

68G (Environmental Health & Safety)

Keywords: Coal mines, Air pollution control, Diesel engines.

PB2013111528

Air Quality 2013, Volume 1. Transportation Research Record: Journal of the Transportation Research Board, No. 2340.

Transportation Research Board, Washington, DC. 2013, 106p

Related Categories/Subcategories:

68A (Air Pollution & Control)

91A (Environmental Management & Planning)

85H (Road Transportation), 91B (Transportation & Traffic Planning)

43G (Transportation)

50C (Construction Equipment, Materials, & Supplies)

43F (Environment)

Keywords: Air quality, Air pollution monitoring, Vehicle air pollution.

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
- **Report Year, Page Count**
- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

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Currently there are more than 850,000 documents digitized for free public access. For the first time, Individuals have the option to subscribe to the NTRL in order to benefit from the Premium features of the database, such as advanced search, more free downloads, and digitization-on-demand (NTRL Premium Institutional).

Please feel free to contact me if you have any questions.

Greg Guthrie, Program Manager
National Technical Reports Library (NTRL)
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Advanced	-	-	✓	✓
Filter Results	-	-	✓	✓
Email Results	-	-	✓	✓
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Linked Research Data on DVD/CD	-	Purchase at NTIS WebStore	Purchase at NTIS WebStore	Free
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Full Text PDF Display	-	✓	✓	✓
Limit Per Session	-	10	40	40
SOCIAL NETWORKING				
View Document's Comments	-	-	✓	✓
Post Document's Comments	-	-	✓	✓ (Available when creating an account within the Institution)
PERSONALIZATION				
Save Personal Notes	-	-	✓	✓ (Available when creating an account within the Institution)
Save Favorite Documents	-	-	✓	✓ (Available when creating an account within the Institution)
Email Favorite Documents Per Session	-	-	✓	✓
EXTERNAL SYSTEMS				
EndNote	-	-	✓	✓
DIGITAL-ON-DEMAND				
User Requests	-	-	-	✓ (Mediated: Limit of 5 per week)
Administrator Tool	-	-	-	✓
INSTITUTION ACCESS				
IP Based	-	-	-	✓
Branded Site	-	-	-	✓
REPORTING				
Administrator Usage Statistics	-	-	-	✓
TRIAL ACCESS				
Public NTRL	-	-	-	

PB2014100439

Re-Evaluation of Montana's Air Quality Program.
SC and A, Inc., McLean, VA.

2013, 108p

Related Categories/Subcategories:

85 (Transportation)

43G (Transportation)

68A (Air Pollution & Control)

43F (Environment)

91A (Environmental Management & Planning)

91B (Transportation & Traffic Planning)

Keywords: Transportation industry, Air quality, Cost effectiveness.

PB2013110078

Meteorological and Wave Measurements for
Improving Meteorological and Air Quality
Modeling.

Sonoma Technology, Inc., Petaluma, CA.

2013, 102p

Related Categories/Subcategories:

55C (Meteorological Data Collection, Analysis, &
Weather Forecasting)

68A (Air Pollution & Control)

47 (Ocean Sciences & Technology)

Keywords: Meteorology, Air quality modeling, Air
water interactions.

PB2014102083

Air Quality Overview, North Cascades National Park
Complex.

National Park Service, Fort Collins, CO. Natural
Resource Stewardship and Science.

2013, 67p

Related Categories/Subcategories:

68A (Air Pollution & Control)

48D (Forestry)

91L (Recreation)

91A (Environmental Management & Planning)

Keywords: Air quality, National parks, Air pollution.

PB2014102204

Natural Resource Condition Assessment for
Sequoia and Kings Canyon National Parks.
Appendix 2. Air Quality.

National Park Service, Fort Collins, CO. Natural
Resource Stewardship and Science.**California
Univ., Berkeley.

2013, 74p

Related Categories/Subcategories:

68A (Air Pollution & Control)

48B (Natural Resource Management)

48C (Natural Resource Surveys), 48D (Forestry)

Keywords: National parks, Air quality, Air pollution.

LEGACY DOCUMENTS

FOR LEGACY DOCUMENTS (LD):

Legacy Documents are documents in the repository
and haven't been digitized. Digitization-on-demand
for these documents is available to NTRL Subscribers.

AD760440

Does DOD Security Strategy Support United States
Foreign Policy.

1972, 21p

Army War College Barracks, PA.

Related Categories/Subcategories:

92D (Education, Law, & Humanities)

92E (International Relations)

Keywords: United States*, Foreign policy*, National
defense, Reports, Deterrence, Reviews.

AD719890

Analytic Model of Border Control.

1970, 70p

RAND Corp., Santa Monica, CA.

Related Categories/Subcategories:

74H (Nuclear Warfare)

74E (Logistics, Military Facilities, & Supplies)

74G (Military Operations, Strategy, & Tactics)

62 (Computers, Control & Information Theory)

Keywords: Counterinsurgency*, Guerrilla
warfare*, Armed forces operations,
Programming(Computers).

AD722705

On-Line Computer Programs for the Analysis of
Border-Control Problems.

1971, 61p

RAND Corp., Santa Monica, CA.

Related Categories/Subcategories:

74H (Nuclear Warfare)

74E (Logistics, Military Facilities, & Supplies)

74G (Military Operations, Strategy, & Tactics)

62 (Computers, Control & Information Theory)

Keywords: Counterinsurgency*, Guerrilla
warfare*, Armed forces operations,
Programming(Computers).

PB294061

New Approach is Needed for Weapon Systems
Coproduction Programs Between the United States
and Its Allies.

1979, 38p

General Accounting Office, Washington, DC.

Procurement and Systems Acquisition Div.

Related Categories/Subcategories:

74 (Military Sciences)

79F (Fire Control & Bombing Systems)

79D-Combat

Keywords: Weapon systems*, Foreign countries*,
Legislation.

ADA118223

France, West Germany, and the Security of the
Persian Gulf.

1982, 215p

Naval Postgraduate School, Monterey, CA..

Related Categories/Subcategories:

92E (International Relations)

74G (Military Operations, Strategy, & Tactics)

Keywords: France*, West Germany*, Persian Gulf*,
National security, International relations, Military
forces(Foreign).

AD632235

U. S. Army Area Handbook for Syria.

1965, 2p

American University Washington DC. Foreign Area
Studies Division.

Related Categories/Subcategories:

92B-Psychology; 96A-Domestic Commerce,
Marketing, & Economics; 88B-Information Systems;
74F-Military Intelligence.

Keywords: Syria*, Social sciences*, Handbooks*,
Sociology, National defense, Foreign policy, Armed
forces(Foreign).

TT-66-32519

Soviet View of the Current Political Situation in
Syria.

1966, 203

Pravda, Moscow (USSR)

Related Categories/Subcategories:

45D-Sociopolitical; 92C-Social Concerns;

92E-International Relations; 92B-Psychology.

Keywords: Soviet Union*, Soviet aggression*,
Soviet Military Forces, Syria*, Syrian Arab Republic,
Political situation, Views.

PB173873

Syria.

1966, 145p

International Customs Tariffs Bureau, Brussels
(Belgium).

Related Categories/Subcategories:

96A-Domestic Commerce, Marketing, & Economics;
72F-Statistical Analysis.

Keywords: Syria*, Commerce*, Statistical data, Law,
Belgium.

AD200786

Principles and Applications of Underwater Sound,
1946 Summary Technical Rept., Vol. 7.

1946, 299p

Office of Scientific Research and Development,
Washington, DC..

Related Categories/Subcategories:

46A-Acoustics; 63A-Acoustic Detection;

47B-Dynamic Oceanography.

Keywords: Applications*, Underwater acoustics*,
Underwater sound, Summary.

AD-408725

Potential for Expansion of National Security
Programs -A Study of Economic
Feasibility.

1960, 167p

Stanford Research Inst., CA.

Related Categories/Subcategories:

74G (Military Operations, Strategy, & Tactics)

96A (Domestic Commerce, Marketing, &
Economics)

43B (Economic & Community Development)

43A (Finance)

Keywords: National Security Programs*, Economic
analysis*, Feasibility study*, Defense programs,,
Finance, Private investment.

CENDI (Commerce, Energy, NASA, Defense Information Managers Group)

CENDI (Commerce, Energy, NASA, Defense Information Managers Group) is an interagency group of senior Scientific and Technical Information (STI) managers from 14 United States federal agencies.

CENDI traces its roots to the Committee on Scientific and Technical Information (COSATI) of the Federal Council on Science and Technology. COSATI was established in the early 1960s to coordinate the management of the results from the U.S. government's increasing commitment to scientific research and technology development. The scientific and technical information (STI) managers of the government's major research and development (R&D) agencies worked within COSATI to standardize guidelines for cataloging and indexing technical reports. COSATI ceased formal operations in the early 1970s.

To continue the cooperation begun under COSATI, managers of agency STI programs from Commerce (National Technical Information Service), Energy (Office of Scientific and Technical Information), NASA (HQ/STI Division), and Defense (Defense Technical Information Center) began meeting periodically to discuss common topics and stimulate more effective cooperation.

In 1985, a Memorandum of Understanding was signed by the four charter agencies and CENDI was established. From this small core of STI managers, CENDI has grown to its current membership, which represents the major science agencies, the national libraries, and agencies involved in the dissemination and long-term management of scientific and technical information.

Public Access Plans of U.S. Federal Agencies

Additional Public Access Plans will be posted as agencies release them.

In a memo released by the Office of Science and Technology Policy (OSTP) on February 22, 2013, each Federal agency with over \$100 million in annual conduct of research and development expenditures was directed to develop a plan to support increased public access to the results of research funded by the Federal Government. This included any results published in peer-reviewed scholarly publications that are based on research that directly arises from Federal funds, as defined in relevant OMB circulars (e.g., A-21 and A-11).

The full memo can be viewed at <https://www2.icsu-wds.org/files/ostp-public-access-memo-2013.pdf>.

Some agencies not subject to the OSTP memo are voluntarily developing Public Access Plans and are included below.

Available Plans

- **Agency for International Development (Oct. 1, 2014)**
<http://blog.usaid.gov/2014/10/announcing-usaids-open-data-policy/>
- **Department of Agriculture (Nov. 7, 2014)**
<http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf> / (PB2015102892)
- **Department of Commerce**
 - **National Institute of Standards and Technology (Apr. 3, 2015)**
<http://www.nist.gov/data/upload/NIST-Plan-for-Public-Access.pdf> / (PB2015104387)
 - **National Oceanic and Atmospheric Administration (Feb. 2015)**
http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf / (PB2015102888)
- **Department of Defense (Feb. 2015)**
http://www.dtic.mil/dtic/pdf/DoD_PublicAccessPlan_Feb2015.pdf
- **Department of Energy (Jul. 24, 2014)**
http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access_Plan_FINAL.pdf / (PB2015101160)
- **Department of Health and Human Services**
<http://www.hhs.gov/open/public-access/guiding-principles.html>
 - **Agency for Healthcare Research and Quality (Feb. 2015)**
<http://www.ahrq.gov/funding/policies/publicaccess/index.html>
 - **Centers for Disease Control (Jan. 2015)**
http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf / (PB2015102889)
 - **Food and Drug Administration (Feb. 27, 2015)**
<http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf> / (PB2015102887)
 - **National Institutes of Health (Feb. 26, 2015)**
<http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf> / (PB2015102891)
 - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**
<http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf> / (PB2015102888)
- **Department of the Interior**
 - **US Geological Survey (Feb. 19, 2015)**
<http://www.usgs.gov/usgs-manual/im/IM-OSQI-2015-01.html>
- **National Aeronautics and Space Administration (Nov. 21, 2014)**
http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf
- **National Science Foundation (Mar. 18, 2015)**
<http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf> / (PB2015102890)
- **Veterans Administration (Feb. 1, 2015)**
http://www.research.va.gov/resources/policies/public_access.cfm

Send Feedback & Questions to: cendi.info@iiaweb.com

DE20131067942

Comfort, Indoor Air Quality, and Energy Consumption in Low Energy Homes. National Renewable Energy Lab., Golden, CO.

A home with an optimized building envelope, including enhanced insulated walls, high-efficiency windows, and airtight construction, can achieve very low energy consumption, foremost in cold climates.

These measures also have a substantial impact on indoor conditions, notably occupant comfort in winter and indoor air quality (IAQ). Specifically, high insulation levels produce indoor surface temperatures close to the indoor air temperature, increasing the mean radiant temperature in winter and (to a lesser extent) decreasing it in summer. Airtight construction prevents uncontrolled ventilation heat losses and protects the building structure, but creates the need for mechanical ventilation to ensure sufficient outdoor air supply. A marketing claim frequently made about high performance homes is that, in addition to being extremely energy efficient, they offer increased comfort and IAQ, and are thus healthier than conventional homes.

This study investigates whether these claims can be supported by measured field data. This report documents the results of an in-depth evaluation of thermal comfort for two potential net zero-energy homes (NZEHS) in Massachusetts. We also present the results of an IAQ evaluation that was part of a larger study done in conjunction with Lawrence Berkeley National Laboratory (LBNL).

Major Subject Categories

Category Codes*/Title

New for July Quantity**

41 Manufacturing Technology	29
43 Problem Solving Information for State & Local Governments.....	114
44 Health Care	86
45 Communication	74
46 Physics	221
47 Ocean Sciences & Technology	104
48 Natural Resources & Earth Sciences.....	166
49 Electrotechnology	36
50 Civil Engineering.....	63
51 Aeronautics & Aerodynamics.....	98
54 Astronomy & Astrophysics	137
55 Atmospheric Sciences	78
57 Medicine & Biology	805
62 Computers, Control & Information Theory	232
63 Detection & Countermeasures	75
68 Environmental Pollution & Control.....	109
70 Administration & Management	123
71 Materials Sciences	90
72 Mathematical Sciences.....	154
74 Military Sciences	358
75 Missile Technology.....	4
76 Navigation, Guidance, & Control	12
77 Nuclear Science & Technology	30
79 Ordnance.....	23
81 Combustion, Engines, & Propellants	22
82 Photography & Recording Devices.....	19
84 Space Technology	137
85 Transportation	133
88 Library & Information Sciences	138
89 Building Industry Technology.....	32
90 Government Inventions for Licensing	0
91 Urban & Regional Technology & Development.....	133
92 Behavior & Society	427
94 Industrial & Mechanical Engineering	82
95 Biomedical Technology & Human Factors Engineering	115
96 Business & Economics.....	92
97 Energy.....	120
98 Agriculture & Food.....	50
99 Chemistry	66

* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

** Quantities represent each new report assigned on average to 3-5 categories.

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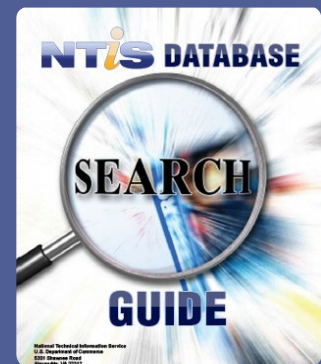
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NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to <http://www.ntis.gov/products/ntrl/>.

Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
PB2013111528	68	Air Quality 2013, Volume 1. Transportation Research Record: Journal of the Transportation Research Board, No. 2340.
PB2014101651	68	Air Quality 2013, Volume 2. Transportation Research Record: Journal of the Transportation Research Board, No. 2341.
PB2013110047	68	Air Quality Modeling Technical Support Document: Proposed Tier 3 Emission Standards, March 2013.
PB2013106512	68	Air Quality Modeling Technical Support Documents: Proposed Tier 3 Emission Standards.
PB2014102083	68	Air Quality Overview, North Cascades National Park Complex.
DE131095437	68	Atmospheric Aerosol Chemistry, Climate Change, and Air Quality, An EMSL Science Theme Advisory Panel Workshop.
N140000090	95	Catalytic Converters Maintain Air Quality in Mines.
DE20131067942	97	Comfort, Indoor Air Quality, and Energy Consumption in Low Energy Homes.
PB2013106513	68	Emissions Inventory for Air Quality Modeling Technical Support Document: Proposed Tier 3 Emissions Standards.
PB2013103792	68	Indoor Air Quality Analysis of Commercial Reference Buildings.
PB2013110078	55	Meteorological and Wave Measurements for Improving Meteorological and Air Quality Modeling.
PB2014102204	68	Natural Resource Condition Assessment for Sequoia and Kings Canyon National Parks. Appendix 2. Air Quality.
ADA606680	48	New Tools for Estimating and Managing Local/Regional Air Quality Impacts of Prescribed Burns.
PB2013110648	48	NIOSH Ventilation Research Addressing Diesel Emissions and Other Air Quality Issues in Nonmetal Mines.
DE131095662	97	Optimization of Ventilation Energy Demands and Indoor Air Quality in the ZEBRAAlliance Homes.
PB2013110040	68	Quality Assurance Handbook for Air Pollution Measurement Systems. Volume 2: Ambient Air Quality Monitoring Program, May 2013.
PB2014100439	85	Re-Evaluation of Montana's Air Quality Program.
ADA607657	89	Technical Guide for Indoor Air Quality Surveys.
PB2013108262	68	Transportation Conformity Notice of Proposed Rulemaking: Conformity Amendments for the New 8-hour Ozone and PM(2.5) National Ambient Air Quality Standards.
N140004415	95	Use Of The Operational Air Quality Monitor (AQM) For In-Flight Water Testing Project.